

PROJECT: 23-1040 MON, MILL CREEK FISH PASSAGE ASSESSMENT

Sponsor: Fish & Wildlife Dept of Program: Salmon State Projects Status: Preapplication

Parties to the Agreement

PRIMARY SPONSOR

Department of Fish and Wildlife

Address PO Box 43135**City** Olympia**State** WA**Zip** 98504-3135**Org Type** State Agency**Vendor #** SWV0007529-00**UBI****Date Org created****Org Notes**[link to Organization profile](#)[link to PRISM Organization page](#)☐ Org data updated

SECONDARY SPONSORS

No records to display

MANAGING AGENCY

Recreation and Conservation Office

LEAD ENTITY

Snake River Salmon Rec Bd LE

External Systems

SPONSOR ASSIGNED INFO

Sponsor-Assigned Project Number

Sponsor-Assigned Regions

EXTERNAL SYSTEM REFERENCE

Source	Project Number	Submitter
HWS	23-1040	AFitzgerald

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Project Contacts

Contact Name Primary Org	Project Role	Work Phone	Work Email
<u>Michael Herr</u> Fish & Wildlife Dept of	Project Contact	(509) 382-4755	michael.herr@dfw.wa.gov
<u>Joseph Bumgarner</u> Fish & Wildlife Dept of	Alt Project Contact	(509) 382-1004	joseph.bumgarner@dfw.wa.gov
<u>Ali Fitzgerald</u> Snake River Salmon Rec Bd LE	Lead Entity Contact	(509) 382-4115	ali@snakeriverboard.org
<u>Alice Rubin</u> Rec. and Conserv. Office	Project Manager	(360) 867-8584	alice.rubin@rco.wa.gov

Worksites & Properties

Worksite Name

#1

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Worksite Map & Description

Worksite #1:

WORKSITE ADDRESS

Street Address

City, State, Zip

Worksite Details

Worksite #1:

SITE ACCESS DIRECTIONS

TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Chinook-Middle Columbia River Spring, Not Warranted		✓	✓	Rising
Steelhead-Middle Columbia River, Walla Walla River, Threatened		✓	✓	Declining

Reference or source used

TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
No species selected	

Project Location

RELATED PROJECTS

Projects in PRISM

PRISM Number	Project Name	Current Status	Relationship Type	Notes
No related project selected				

Related Project Notes

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Project Proposal

Project Description

CTUIR and WDFW are proposing a salmon passage assessment in Mill Creek (tributary to Walla Walla River) utilizing PIT tags and Instream PIT Tag Detection Systems(IPTDS). In 2023, CTUIR will be releasing 100,000 spring Chinook smolts into upper Mill Creek as part of an on-going reintroduction effort. Staff will PIT tag 15,000 fish/year for the next three years. Passage routes and success will be assessed through the Mill Creek Flood control channel and Yellowhawk Creek from 2024-2028, providing critical, empirical fish passage data that is currently lacking for Mill Creek. While spring Chinook in the basin are not an ESA listed species, both CTUIR and WDFW currently release hatchery spring Chinook in the Walla Walla basin, with goals to re-establish the natural production of spring Chinook within the basin and provide both tribal and non-tribal harvest opportunities.

The project sponsors are requesting \$299,950 for the purchase of PIT tags and IPTDS for two sites near the mouths of Mill Creek and Yellowhawk Creek. The PIT Tags, in addition to the IPTDS infrastructure will provide data to inform the passage assessment of spring Chinook through the flood control channel in Mill Creek, and Yellowhawk Creek. Staff from both CTUIR and WDFW will install and maintain the instream PIT arrays. Funding match will be provided by in-kind cost shares from CTUIR and WDFW BPA funded Walla Walla Monitoring and Evaluations projects (CTUIR: 2000-039-00; WDFW: 2000-039-01).

Project Questions

- #1: Problem statement. What are the problems your monitoring project seeks to address? Include the source and scale of each problem. Describe the site, reach, and watershed conditions. Describe how those conditions impact salmon populations. Include current and historic factors important to understand the problems.
- #2: Describe the limiting factors, and/or ecological concerns, and limiting life stages (by fish species) that your project expects to address; include references or rationale behind the identified limiting factors. Where appropriate, reference the priorities of the relevant salmon recovery plan or state strategy to demonstrate how the proposal addresses those priorities.
- #3: Why are SRFB funds necessary, rather than funds from other sources? State if other funds are unavailable. Identify other funding partnerships (including in-kind contributions such as salaries, logistical support) involved and explain what aspects of monitoring the proposed SRFB funds will cover.
- #4: How will your project inform future management actions in light of climate change? For example, will results from the monitoring make it possible to assess whether habitat improvements will move toward environments that are resilient to adverse climate effects?
- #5: What are the assumptions and physical constraints that could impact whether you achieve your objectives? Assumptions and constraints are external conditions that are not under the direct control of the project, but directly affect the outcome of the project. These may include ecological and geomorphic factors, land-use constraints, public acceptance of the project, delays, or other factors. How will you address these issues if they arise?
- #6: Will veterans (including the veterans conservation corps) be involved in the project? If yes, please describe.
No
- #7: Describe how the proposed monitoring will provide data essential for advancing salmon recovery. What high priority information needs or data gaps identified within the regional recovery plan and/or associated regional research, monitoring, and evaluation plan (or lead entity strategy in areas without a recovery region) will the study address?
- #8: Which fish species or habitats will be monitored or measured and why?
- #9: What fish restoration actions will the proposed monitoring inform or affect?

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- #10: Explicitly identify the geographic scale and extent of proposed data collection.
- #11: If the project is part of a larger overall monitoring project or strategy, describe the goal of the overall strategy, explain individual sequencing steps, and identify which steps are included in this application for funding.
- #12: Are the data to be produced by the project available from other sources (literature, other SRFB monitoring, etc.) or being adequately addressed by prior or ongoing studies or existing literature?
- #13: Describe previous or ongoing assessment or inventory efforts in the project's geographic area that are relevant to the monitoring project and describe how this project will build upon, rather than duplicate, the completed or ongoing work. Include detail about other monitoring efforts that complement or could help accomplish the overall objective, so that readers can understand the gaps, if any.
- #14: How will the study contribute to validating or revising current management strategies for recovery or assessing progress toward delisting the focal species? Include explicit ties of the proposed monitoring to advancing our knowledge of viable salmonid populations (VSP) parameters (abundance, productivity, spatial structure, and diversity) of the focal species.
- #15: Describe the sponsor and project partners' knowledge, planning, and experience with this type of project, and how this will ensure that the project will yield meaningful information. Identify the project's Principle Investigator and describe their relevant experience.
- #16: How have lessons learned from other completed projects or monitoring studies informed this project?
- #17: How were stakeholders consulted in the development of this project? Identify the stakeholders, their concerns or feedback, and how those concerns were addressed.
- #18: Has the appropriate region shown its support for this project by signing and submitting regional certification?

Monitoring Supplemental

- #1: Instructions for answering Monitoring questions (no response needed): Regional Monitoring Study Plan - Proposed monitoring study plans need to be based on clearly identified and sound scientific principles and valid assumptions and include technically sound methods and analytical techniques adequate to achieve the project goals and objectives. If the study plan has been reviewed by a qualified expert from an external organization, please so state. Please answer the following questions about your Monitoring Project Study plan and attach supporting documentation that may include, figures, tables, photos, and citations. Clearly cite published papers and reports referenced within the study plan, and, if available, provide electronic links. If supporting documents are not publicly available, they should be loaded onto PRISM. Where appropriate, a brief literature review can be included in the study plan.
- #2: What are the project's goals? The goal of the project should fill specific gaps in information essential to salmon recovery efforts. The goal statements should broadly articulate desired ecological outcomes of the proposed activity.
- #3: What are the project's monitoring questions and objectives? Objectives support and refine the goals, breaking them down into smaller steps. Objectives are specific, quantifiable actions the project will complete to achieve the stated goal. Each objective should be SMART (Specific, Measurable, Achievable, Relevant, and Time-bound). State SMART objectives as expected "outcomes" rather than "output." Monitoring project objectives should tell a reader what the sponsor wants to learn rather than what they will do.

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- #4: Provide clearly stated, testable hypotheses. Each hypothesis should have identified deliverables or outputs. These outputs should relate to an outcome for the project (e.g., what will be learned and applied to future management or projects). If not applicable, enter N/A.
- #5: Scope of work and deliverables. Provide a detailed description of each project task/element and how they will lead to the objectives. With each task/element, identify who will be responsible for each, what the deliverables will be, and the schedule for completion.
- #6: Sampling design. Describe the scale, spatial and temporal replication, stratification and site selection of the proposed monitoring design. Provide map of the proposed sampling locations if already selected. If locations are not yet defined, describe the process by which the sponsor will identify and select sampling locations.
- #7: Data collection methods and protocols. Describe or reference field methods, essential equipment, and any applicable laboratory or data processing procedures.
- #8: Is the methodology proposed a widely accepted?
- #9: Is the methodology new or novel?
- #10: Applicability. Describe the scale of inference of the proposed study design and analyses. That is, does this project allow for project results to be inferred beyond the initial geographical scale of the project. If so, will the results be applicable at the reach scale, watershed scale, population scale, ESU/DPS scale, or larger scales?
- #11: Measured and Derived Variables. Describe or reference the response variables, to be measured or calculated, and provide the rationale for their selection.
- #12: Are the selected variables consistent with ongoing monitoring efforts in the region? If not, provide justification for the departure.
- #13: Analytical approach. Describe the statistical tests and data analysis used to test the hypotheses identified above. Include a preliminary power analysis.
- #14: Data management. Describe the approach that will be used to review (QA/QC), manage, store, and archive data to ensure data quality and accessibility.
- #15: Reporting. Describe the reporting format(s) used, and frequency and timeline for reporting monitoring results.
- #16: Dissemination of results. Describe the process for disseminating data, results, and reports.
- #17: Peer Review. Do you plan to publish the results in peer-reviewed literature?
- #18: Identify scientific assumptions and constraints that could affect the sponsor's ability to achieve objectives and how the sponsor will modify the approach if the sponsor does not meet assumptions.

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#19: What other assumptions and/or physical constraints could impact whether you achieve your objectives? In this case, assumptions and constraints are external conditions that are not under the direct control of the project, but directly affect the outcome of the project. These may include ecological and geomorphic factors, land-use constraints, public acceptance of the project, delays, or other factors. How will you address these issues if they arise?

Monitoring Metrics

Worksite: (#1)

Priority in Recovery Plan

Number of Reports Prepared (E.0.e.1)

Name Of Report (E.0.e.2)

Project Identified in a Plan or Watershed Assessment (E.0.c)

Number of Cooperating Organizations (E.0.d.1)

Name Of Cooperating Organizations (E.0.d.2)

Complement Habitat Restoration Project (E.0.b)

Overall Project Metrics

COMPLETION DATE

Projected date of completion

Monitoring Cost Estimates

Worksite #1:

Category	Work Type	Estimated Cost	Note
	Subtotal:	\$0	
	Total Estimate For Worksite:	\$0	

Summary

Total Estimated Costs:	\$0
Total Estimated Monitoring Costs:	\$0

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Cost Summary

	Estimated Cost	Project %	Admin/AA&E %
<u>Monitoring Costs</u>			
Monitoring	\$0		
SUBTOTAL	\$0		
Total Cost Estimate	\$0 !	100.00 %	

Funding Request and Match

FUNDING PROGRAM

Salmon State Projects	\$299,950	100.000000
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SPONSOR MATCH

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Attachments

Required Attachments

1 out of 3 done

- Cost Estimate ✓
- Monitoring Study Plan
- RCO Fiscal Data Collection Sheet

PHOTOS (JPG, GIF)

Photos (JPG, GIF)



PROJECT DOCUMENTS AND PHOTOS

Project Documents and Photos

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
	02/01/2023	Landowner acknowledgement form	YHC LandownerAckForm.jpg	MichaelH	YHC LandownerAckForm.jpg, 550351	
	02/01/2023	Map: Planning Area	MC_YWH Worksite MAP.JPG	MichaelH	MC_YWH Worksite MAP.jpg, 550350	✓
	02/01/2023	Map: Area of Potential Effect (APE)	MC YHC APE MAP.JPG	MichaelH	MC YHC APE MAP.jpg, 550349	✓
	01/30/2023	Photo	PIT Tagging.jpg	MichaelH	PIT Tagging.jpg, 549950	✓
	01/30/2023	Map: Planning Area	General Vicinity Map Mill Creek Assessment.pptx	MichaelH	General Vicinity Map Mill Creek Assessment.pptx, 549945	✓
	01/30/2023	Landowner acknowledgement form	Landowner Acknowledgement Form NPS - Fish Tag SGT.docx	MichaelH	Landowner Acknowledgement Form NPS - Fish Tag SGT.docx, 549944	
	01/17/2023	Cost Estimate	SAL-CostEstimate Mill Creek Assessment.xlsx	JosephB	SAL-CostEstimate Mill Creek Assessment.xlsx, 548500	✓

Application Status

Application Due Date: 06/27/2023

Status Name	Status Date	Submitted By	Submission Notes
Preapplication	01/09/2023		

I certify that to the best of my knowledge, the information in this application is true and correct. Further, all application requirements due on the application due date have been fully completed to the best of my ability. I understand that if this application is found to be incomplete, it will be rejected by RCO. I understand that I may be required to submit additional documents before evaluation or approval of this project and I agree to provide them.

Date of last change: 02/01/2023